

#69625 Store at -20C

Mis18- α (D3N2X) Rabbit mAb**Cell Signaling**
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3 Trask Lane | Danvers | Massachusetts | 01923 | USA

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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
WB	H	Endogenous	26	Rabbit IgG	#Q9NYP9	54069

Product Usage Information**Application**

Western Blotting

Dilution

1:1000

StorageSupplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.**Specificity / Sensitivity**Mis18- α (D3N2X) Rabbit mAb recognizes endogenous levels of total Mis18- α protein.**Source / Purification**Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Arg41 of human Mis18- α protein.**Background**

CENP-A, also known as the chromatin-associated protein CSE4 (capping-enzyme suppressor 4-p), is an essential histone H3 variant that replaces canonical histone H3 in centromeric heterochromatin. The inherited localization of the centromere is specified by CENP-A (1). CENP-A deposition to the correct chromosomal location in early G1 phase is regulated by the Mis18 complex, which consists of Mis18- α , Mis18- β , Mis18BP1, RbAp48 and RbAp46 (2). Mis18- α deficiency in mice results in inappropriate localization of CENP-A, as well as DNA methylation defects (3). Localization of the Mis18 complex to centromeres is regulated by the mitotic kinase Plk1 (polo-like kinase 1) (4).

Background References

1. Ausi \acute{o} , J. (2006) *Brief Funct Genomic Proteomic* 5, 228-43.
2. Stellfox, M.E. et al. (2013) *Cell Mol Life Sci* 70, 387-406.
3. Kim, I.S. et al. (2012) *Mol Cell* 46, 260-73.
4. McKinley, K.L. and Cheeseman, I.M. (2014) *Cell* 158, 397-411.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key**WB:** Western Blotting**Cross-Reactivity Key**

H: human **M:** mouse **R:** rat **Hm:** hamster **Mk:** monkey **Vir:** virus **Mi:** mink **C:** chicken **Dm:** D. melanogaster
X: Xenopus **Z:** zebrafish **B:** bovine **Dg:** dog **Pg:** pig **Sc:** S. cerevisiae **Ce:** C. elegans **Hr:** horse
GP: Guinea Pig **Rab:** rabbit **All:** all species expected

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